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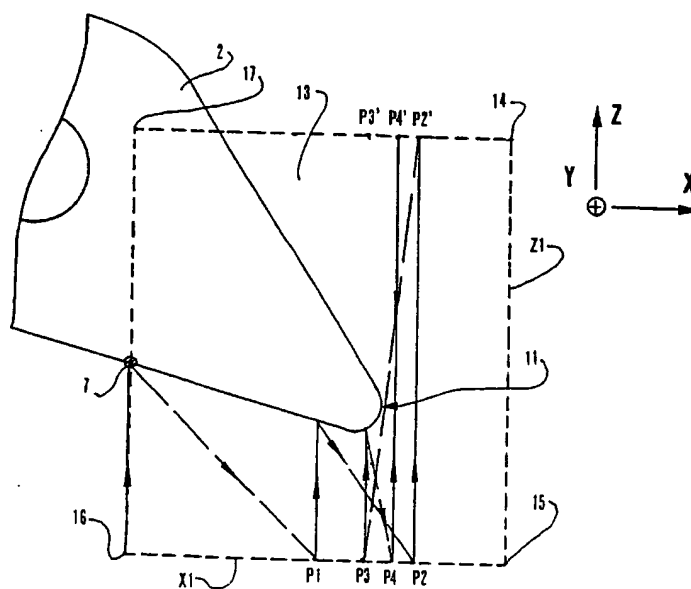
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(54) Title: **METHOD AND SYSTEM FOR CHECKING THE POSITION OF A MECHANICAL PART WITH A LIGHT BEAM**



(57) Abstract: A method and a system for checking the position of a mechanical part (2), for example a tool of a lathe, along a checking direction (X), employs an optoelectronic device (1) with a laser beam (7) and a sensor (8) for detecting the interruption of the beam. Mutual displacements between the part to be checked and the optoelectronic device within a checking area (13) are controlled according to a sequence including linear inspection movements (30) along a direction (Z) perpendicular to the checking direction and at inspection positions (Pi; P1-P4). The inspection positions are spaced apart along the checking direction at progressively decreasing mutual distances (D), according to a sequence that converges to the searched position (PN).

WO 2005/025803 A1



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